ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 4 · 25 QUESTIONS

# Community Level Systems — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

**1** **Seabirds on a rocky island eat fish. If the fish population falls, what happens to the seabirds?**

- A their numbers fall
- B they eat more fish
- C they move to the sea
- D their numbers rise

Understand It with Pulse | Flag a mistake

**2** **A forest is cut down. What happens to the carbon stored in the trees?**

- A it is released
- B it is stored forever
- C it disappears
- D it turns to oxygen

Understand It with Pulse | Flag a mistake

3 **A honeybee collects nectar. What is nectar?**

- A a protein-rich food
- B a fatty substance
- C a sugary liquid
- D a mineral solution

Understand It with Pulse | Flag a mistake

4 **A sunflower grows taller over the summer. Where does most of the extra mass come from?**

- A carbon dioxide from the air
- B minerals absorbed from the soil
- C water absorbed from the soil
- D sunlight captured by the leaves

Understand It with Pulse | Flag a mistake

5 **Rabbits with white fur survive better in snow. What is this an example of?**

A extinction

B natural selection

C mutation

D artificial selection

Understand It with Pulse | Flag a mistake

6 **A peach contains a stone. What is inside the stone?**

A a flower

B a root

C a leaf

D a seed

Understand It with Pulse | Flag a mistake

7 **A field has 1000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 200 kg
- B 100 kg
- C 1000 kg
- D 50 kg

Understand It with Pulse | Flag a mistake

8 **A quadrat of area 50 square metres contains on average 5 daisies. Estimate the number of daisies in a field of 500 square metres.**

- A 25
- B 500
- C 50
- D 100

Understand It with Pulse | Flag a mistake

9 **How does photosynthesis affect carbon dioxide in the air?**

A it turns carbon dioxide into oxygen

B it releases carbon dioxide

C it removes carbon dioxide

D it stores carbon dioxide in soil

Understand It with Pulse | Flag a mistake

10 **What is a producer?**

A an organism that eats animals

B an organism that eats plants

C an organism that breaks down dead matter

D an organism that makes its own food

Understand It with Pulse | Flag a mistake

**11** **Quadrat counts of daisies are 4, 6 and 5. What is the mean count?**

- A 4
- B 6
- C 5
- D 15

Understand It with Pulse | Flag a mistake

**12** **Producers in a food chain have a biomass of 5000 kg. About 10 per cent of biomass passes to each level. What is the biomass of the secondary consumers?**

- A 100
- B 50
- C 500
- D 5

Understand It with Pulse | Flag a mistake

13 **Producers in a food chain hold 100000 kJ of energy. About 10 percent passes to the primary consumers. How much energy reaches them?**

- A 10000 kJ
- B 100000 kJ
- C 20000 kJ
- D 5000 kJ

Understand It with Pulse | Flag a mistake

14 **What shape is a pyramid of biomass?**

- A a circle
- B wide at the bottom, narrow at the top
- C narrow at the bottom, wide at the top
- D the same width all the way up

Understand It with Pulse | Flag a mistake

15 **What is biogas?**

A carbon dioxide from burning

B nitrogen from the air

C methane made without oxygen

D oxygen released by plants

Understand It with Pulse | Flag a mistake

16 **What do decomposers return to the soil?**

A water

B oxygen

C nutrients

D carbon dioxide

Understand It with Pulse | Flag a mistake

17 **A quadrat of area 20 square metres contains on average 6 daisies. Estimate the number of daisies in a field of 200 square metres.**

- A 30
- B 120
- C 600
- D 60

Understand It with Pulse | Flag a mistake

18 **How does combustion affect carbon dioxide in the air?**

- A it releases carbon dioxide
- B it stores carbon dioxide in rock
- C it turns carbon dioxide into oxygen
- D it removes carbon dioxide

Understand It with Pulse | Flag a mistake

19 **What is a transect?**

A a square frame on the ground

B a way of counting trees

C a line across a habitat

D a trap for small animals

Understand It with Pulse | Flag a mistake

20 **Producers in a food chain have a biomass of 2000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

A 400

B 2000

C 20

D 200

Understand It with Pulse | Flag a mistake

21 **Why is decay important in an ecosystem?**

A it removes carbon dioxide

B it stops plants growing

C it recycles nutrients

D it makes the soil warmer

Understand It with Pulse | Flag a mistake

22 **How does deforestation affect the atmosphere?**

A more oxygen is made

B less carbon dioxide is absorbed

C more carbon dioxide is absorbed

D the air gets cleaner

Understand It with Pulse | Flag a mistake

**23** **A field has 2000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 100 kg
- B 200 kg
- C 1000 kg
- D 50 kg

Understand It with Pulse | Flag a mistake

**24** **A quadrat of area 20 square metres contains on average 4 daisies. Estimate the number of daisies in a field of 200 square metres.**

- A 400
- B 40
- C 20
- D 80

Understand It with Pulse | Flag a mistake

25

## Where is carbon stored long term?

A in rain water

B in the air as oxygen

C in living organisms only

D in fossil fuels

Understand It with Pulse

Flag a mistake

# ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | A | **10.** | D | **19.** | C |
| **2.** | A | **11.** | C | **20.** | D |
| **3.** | C | **12.** | B | **21.** | C |
| **4.** | A | **13.** | A | **22.** | B |
| **5.** | B | **14.** | B | **23.** | A |
| **6.** | D | **15.** | C | **24.** | B |
| **7.** | B | **16.** | C | **25.** | D |
| **8.** | C | **17.** | D | | |
| **9.** | C | **18.** | A | | |

© 2026 Brett Robbins. All Rights Reserved.